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The present invention relates to an actuator drive apparatus capable of eliminating the influence of the mutual induction effect of a drive coil and a detection coil with a simple structure. That is, the present invention is an actuator drive apparatus capable of causing a movement of the drive coil of a scanner by applying an electric current thereto, and generating and maintaining the resonance state by feeding back an output signal of the detection coil at that moment. In particular, the present invention uses a rectangular wave as the drive signal and includes an LPF for eliminating a specific high frequency component of an output signal of the detection coil.